

A NEW SPECIES OF THE GENUS DIPLOMMATINA BENSON, 1849 FROM CHINA (PROSOBRANCHIA, MESOGASTROPODA, DIPLOMMATINIDAE)

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Abstract A new species of genus *Diplommatina* is described in the present paper. The studied materials collected from Luodian County (25°4'N, 106°7'E), Dajin Town, Guizhou Province. Type specimens are deposited in the Guizhou Normal University, Guiyang and Institute of Zoology, Chinese Academy of Sciences, Beijing.

Key words Prosobranchia, Mesogastropoda, Diplommatinidae, *Diplommatina*, new species.

Since Tielecke (1940) established his classification of the superfamily Cyclophoracea, the family Diplommatinidae is divided into two subfamilies, the Cochlostominae of Europe and the Diplommatinae of East Asian. The latter possibly includes the doubtfully attributed *Addopoma* of South American. In the Western Pacific Region, the Diplommatinae occurs in Japan, China, the Marianas, Caroline, Palau, Bismarck, Solomon, Fiji, Samoa and Tonga Islands and reach Norfolk and Lord Howe islands and Eastern Australia (references?). Species of the genus were put under the genus *Bulinus*. Kobelt and Moellendorff (1898) erected *Eudiplommatina*. Bieler (1992) divided the genus into 6 subgenus: *Diplommatina* s. s. (synonym *Eudiplommatina* Kobelt & Moellendorff, 1898); *D.* (*Angigastera*) Pilsbry & Hirase, 1904; *D.* (*Metadianda*) Moellendorff, 1898; *D.* (*Sinica*) Moellendorff, 1885; *D.* (*Moussonia*) O. Semper, 1865 and *D.* (*Diploptychia*) Moellendorff, 1895. Thirty-four species of the genus *Diplommatina* Benson, 1849 are known in China, including one new species. They are narrowly distributed in South China and Yangtze River.

Diplommatina Benson, 1849

Diplommatina Benson, 1849. *Ann. Mag. Nat. Hist. London*, 2 (14): 193.

Diplommatina Yen, 1939. *Abh Senckenb. Natur. Ges.*, 444: 30.

Type species: *Bulinus folliculus* Pfeiffer, 1846 Symb. Helic., 2: 83.

Shell small to minute, dextral or sinistral, in most cases ovate, ovate-elongate, fusiform, turreted or pupa formed in shape. Shell surface with yellowish brown in color, and very rough and with some ribs or sculptured. The shell has an indistinct umbilical slit on its basal side. The aperture is nearly circular, its apertural margin continuous or discontinuous, broadened, duplicated and reflected, and with a columellar lamella. Operculum

circular, somewhat calcareous, with few whorls bearing a lamella on the exterior.

Diplommatina luodianensis sp. nov. (Figs. 1-2)

Measurement. Holotype, alt. 3.90 mm, diam. 1.80 mm; alt. of aperture 1.00 mm, diam. of aperture 0.90 mm; collected from Luodian County (25°4'N, 106°7'E), Dajin Town, Guizhou Province, 4 Oct. 2006.

Paratypes, 29 specimens, among them, 6 specimens are juvenile. Alt. 3.40–4.00 mm, diam. 1.50–1.80 mm; alt. of aperture 0.80–1.20 mm, diam. of aperture 0.80–0.90 mm; collected from Dajin Town, Luodian County (25°4'N, 106°7'E), Guizhou Province, 4 Oct. 2006.

Type specimens are deposited in the Department of School of Geography and Biology, Guizhou Normal University, Guiyang.

Description. Shell very small, thin, semitransparent, pupa formed, yellowish brown in color. Whorls $7\frac{1}{2}$, moderately convex, with high spiral part; penultimate whorl strongly convex, wider than body whorl; protoconch 1–2 whorls, smooth, dull. Suture deep. Apex blunt. Shell surface very rough, somewhat regularly rib formed sculptured, with winding and oblique flake formed rib lines at periphery. Aperture circular, lustrous, thick, with duplicated lips, somewhat expanded and turning over. Columellar lamella small, nipple formed. Operculum circular, translucent, light brown. Umbilicus small.

Remarks. This new species resembles *Diplommatina xiaoqikongensis* Ran *et al.*, 1999, but differs from the latter in having the smaller size, surface with somewhat regularly rib formed sculptured, winding and oblique

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flake formed rib line at periphery and with a small and nipple formed columellar lamella. The shell of latter very small, with length 2.17 mm, diam. 1.17 mm; length of

aperture 0.67 mm, diam. of aperture 0.75 mm, little thick, and with winding and oblique flake formed rib line at periphery, and with a very small columellar lamell.



Figs 1-2. *Diplomatina luodianensis* sp. nov. 1. Lateral view of shell. 2. Dorsal view of shell.

The type materials were collected in the orifice of calcareousness cavern. They were probably falling from the forest above. The forest is a secondary tropical monsoon forest.

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中国倍唇螺属一新种记述 (前鳃亚纲, 中腹足目, 倍唇螺科)

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摘 要 笔者在贵州省罗甸地区进行野外调查时获得陆生软体动物标本一批, 经整理鉴定, 得 1 新种, 即罗甸倍唇螺 *Diplommatina luodianensis* sp. nov.。隶属前鳃亚纲、中腹足目、倍唇螺科、倍唇螺属。我国已记载倍唇螺属的种类有 34 种

关键词 前鳃亚纲, 中腹足目, 倍唇螺科, 倍唇螺属, 新种.

中图分类号 Q959. 212

和亚种, 主要分布于我国南部及长江流域一带地区。对新种形态特征、栖息环境进行了记述, 并与近似种进行了比较和讨论。

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